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(71) Applicant (for all designated States except US): **MICRON
TECHNOLOGY, INC.**? [US/US]; 8000 South Federal
Way, Boise, Idaho 83716-9632 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MEYER, James,**

W.? [US/US]; 300 Longlake Court, Shoreview, Minnesota
55126 (US). **RENICK, Kirsten**? [US/US]; 1440 Grand
Avenue, Apt. 1, St. Paul, Minnesota 55105 (US).

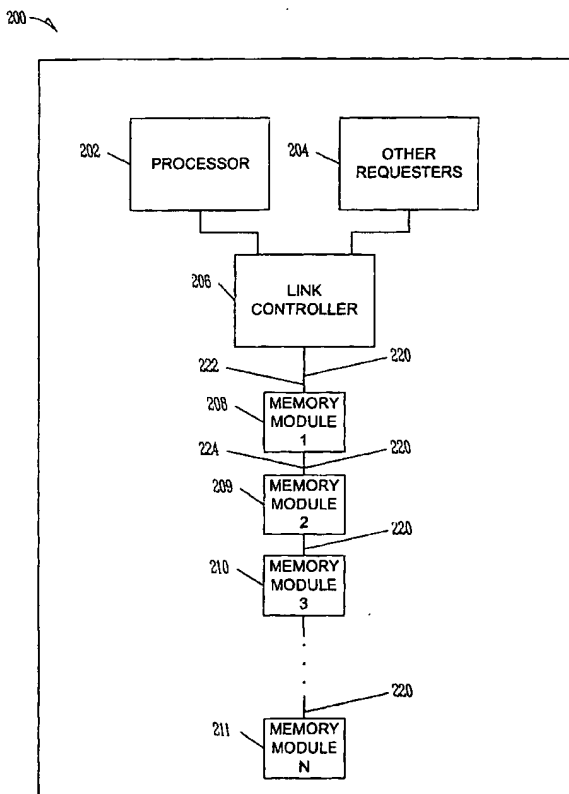
(74) Agents: **STEFFEY, Charles, E.** et al.; P.O. Box 2938,
Minneapolis, MN 55402 (US).

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(54) Title: METHOD AND APPARATUS FOR SENDING DATA FROM MULTIPLE SOURCES OVER A COMMUNICATIONS
BUS



(57) Abstract: In a memory system, multiple memory modules (208-211, Figure 2) communicate over a bus (220). Each memory module includes a hub (302, Figure 3) and at least one memory storage unit (304). The hub receives local data (410, Figure 4) from the memory storage units, and downstream data (420) from one or more other memory modules. The hub assembles (718, Figure 7) data to be sent over the bus within a data block structure (440), which is divided into multiple lanes (508-515, Figure 5). An indication is made (612, Figure 6) of where, within the data block structure, a breakpoint will occur in the data being placed on the bus by a first source (e.g., the local or downstream data). Based on the indication, data from a second source (e.g., the downstream or local data) is placed in the remainder of the data block, thus reducing gaps on the bus.

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EPO-Internal, WPI Data, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	"IEEE Std 1596.4-1996 - IEEE Standard for High-Bandwidth Memory Interface Based on Scalable Coherent Interface (SCI) Signaling Technology (RamLink)" 31 December 1996 (1996-12-31), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC., NEW YORK, USA, XP002333770 ISBN: 1-55937-745-3 paragraph '1.5.1! paragraph '05.1! paragraph '6.1.3! figure B.3 figure 2	1-46
Y	WO 95/06285 A (3COM CORPORATION) 2 March 1995 (1995-03-02) pages 1,8-11 ----- -/--	1-46

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Braccini, G

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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A	WO 02/084428 A (MICRON TECHNOLOGY, INC) 24 October 2002 (2002-10-24) page 12, line 20 - page 14, line 10 figure 1 -----	1-46
A	US 2002/144085 A1 (HIRATSUKA SHINJI ET AL) 3 October 2002 (2002-10-03) paragraphs '0008!, '0031! - '0037! figure 2 -----	1-46

INTERNATIONAL SEARCH REPORT

Information on patent family members

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